

THOMSON
DELPHION

RESEARCH

PRODUCTS

INSIDE DELPHION

My Account

Search: Quick/Number Boolean Advanced Derwent

Help

The Delphion Integrated View

Get Now: ☒ PDF | [More choices...](#)Tools: Add to Work File: Create new Work File ☐ Go

View: INPADOC | Jump to: Top

☐ Go to: Derwent☐ Email (this to a friend)

🔍 Title: **JP08217561A2: LIGHT-WEIGHT CALCIUM SILICATE FORMED BODY AND ITS PRODUCTION**

🔍 Derwent Title: Lightweight calcium silicate moulding for building materials - has specified porosity, interlayer strength and mean line surface roughness [\[Derwent Record\]](#)

🔍 Country: JP Japan

🔍 Kind: A

🔍 Inventor: ABE NOBUHIKO;
MONZEN HIROBUMI;

🔍 Assignee: CHICHIBU ONODA CEMENT CORP
[News, Profiles, Stocks and More about this company](#)

🔍 Published /
Filed: 1996-08-27 / 1995-02-13

🔍 Application
Number: JP1995000047751

🔍 IPC Code: C04B 38/00; C04B 28/18; C04B 38/08; C04B 40/02;
C04B 28/18;

🔍 ECLA Code: C04B20/00D2; C04B28/18C;

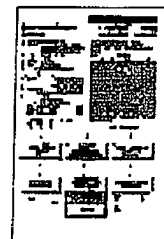
🔍 Priority
Number: 1995-02-13 JP1995000047751

🔍 Abstract: PURPOSE: To improve the resistance to freezing damage to a formed body by forming the formed body having a specified bulk density, predicted closed cell rate, interlayer strength and average linear surface roughness.

CONSTITUTION: A material contg. 15-40wt.% portland cement, 10-20% slaked lime, 10-35% diatomaceous earth and 15-55% high-strength closed hollow balloons such as a fly ash balloon having high contents of active silica and aluminum, having a pozzolana action and having $\leq 200\mu\text{m}$ diameter is used as the main raw material, and the CaO-to-SiO₂ molar ratio is controlled to 0.45-0.80. To the main raw material 5-7% pulp slurry, a reinforcing fiber such as carbon fiber and a thickener such as methylcellulose are added to form a slurry, and the slurry is dehydrated and press-formed. The formed body is allowed to stand for $\geq 24\text{hr}$, then cured and subjected to a hydrothermal synthesis to obtain a lightweight calcium silicate formed body having 0.4-0.9 bulk density, $\geq 15\%$ predicted closed cell rate shown by the expression (porosity = 1-bulk density/true sp.gr.), $\geq 5\text{kgf/cm}^2$ interlayer strength and $\leq 10\mu\text{m}$ average linear surface roughness according to JIS B0601.

COPYRIGHT: (C)1996,JPO

🔍 Family: None




[View
Image](#)

1 page

Forward
References:

Go to Result Set: Forward references (1)

PDF	Patent	Pub.Date	Inventor	Assignee	Title
	US6572697	2003-06-03	Gleeson; James A.	James Hardie Research Pty Limited	Fiber cement building materials with low density additives

Other Abstract
Info:

CHEMABS 125(24)307361G CAN125(24)307361G DERABS C96-439366 DERC96-439366



[Nominate this for the Gallery...](#)

Copyright © 1997-2004
The Thomson Corporation

[Subscriptions](#) | [Web Seminars](#) | [Privacy](#) | [Terms & Conditions](#) | [Site Map](#) | [Contact Us](#) | [Help](#)